



**United States Environmental Protection Agency
Region 9 Laboratory**

**1337 S. 46th Street Building 201
Richmond, CA 94804**

Date: 5/3/2012

Subject: Analytical Testing Results - Project R12S51
SDG: 12040C

From: Brenda Bettencourt, Director
EPA Region 9 Laboratory
MTS-2

To: Christopher Weden
Emergency Response Section
SFD-9-2

Attached are the results from the analysis of samples from the **Grey Eagle Mine February 2012 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Metals by ICP/MS



United States Environmental Protection Agency

Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804

Phone:(510) 412-2300

Fax:(510) 412-2302

Project Manager: Christopher Weden

Project Number: R12S51

Project: Grey Eagle Mine February 2012 Sampling

Emergency Response Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 12040C

Reported: 05/03/12 08:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GE2-SW-01	1202027-01	Water	02/08/12 09:30	
GE2-SW-01-filtered	1202027-02	Water	02/08/12 09:30	02/09/12 15:07
GE2-SW-02	1202027-03	Water	02/08/12 09:00	02/09/12 15:07
GE2-SW-02-filtered	1202027-04	Water	02/08/12 09:00	
GE2-SW-03	1202027-05	Water	02/08/12 10:45	
GE2-SW-03-filtered	1202027-06	Water	02/08/12 10:45	02/09/12 15:07
GE2-SW-04	1202027-07	Water	02/08/12 11:00	02/09/12 15:07
GE2-SW-04-filtered	1202027-08	Water	02/08/12 11:00	02/09/12 15:07
GE2-SW-05	1202027-09	Water	02/08/12 12:40	02/09/12 15:07
GE2-SW-05-filtered	1202027-10	Water	02/08/12 12:40	02/09/12 15:07
GE2-SW-805	1202027-11	Water	02/08/12 12:45	02/09/12 15:07
GE2-SW-805-filtered	1202027-12	Water	02/08/12 12:45	02/09/12 15:07
GE2-SW-06	1202027-13	Water	02/08/12 14:40	
GE2-SW-06-filtered	1202027-14	Water	02/08/12 14:40	
GE2-SW-07	1202027-15	Water	02/08/12 15:20	
GE2-SW-07-filtered	1202027-16	Water	02/08/12 15:20	
GE2-SW-08	1202027-17	Water	02/08/12 15:00	
GE2-SW-08-filtered	1202027-18	Water	02/08/12 15:00	02/09/12 15:07
GE2-SW-09	1202027-19	Water	02/08/12 15:50	
GE2-SW-09-filtered	1202027-20	Water	02/08/12 15:50	02/09/12 15:07

SDG ID 12040C

Arsenic by method 200.8:

Results for full list metals were previously reported on 3/6/12. At that time arsenic was reported from method 200.7 (ICP/AES) analysis, as per the initial analytical request. Subsequently, at the request of Mindy Song, Ecology and Environment, these samples were reanalyzed using method 200.8 (ICP/MS) in order to achieve a lower reporting limit.

Work Order(s)

1202027



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Christopher Weden

Project Number: R12S51

Project: Grey Eagle Mine February 2012 Sampling

Emergency Response Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 12040C

Reported: 05/03/12 08:42

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202027-01									Water - Sampled: 02/08/12 09:30
Sample ID: GE2-SW-01									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-02									Water - Sampled: 02/08/12 09:30
Sample ID: GE2-SW-01-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-03									Water - Sampled: 02/08/12 09:00
Sample ID: GE2-SW-02									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-04									Water - Sampled: 02/08/12 09:00
Sample ID: GE2-SW-02-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-05									Water - Sampled: 02/08/12 10:45
Sample ID: GE2-SW-03									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-06									Water - Sampled: 02/08/12 10:45
Sample ID: GE2-SW-03-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-07									Water - Sampled: 02/08/12 11:00
Sample ID: GE2-SW-04									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-08									Water - Sampled: 02/08/12 11:00
Sample ID: GE2-SW-04-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-09									Water - Sampled: 02/08/12 12:40
Sample ID: GE2-SW-05									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-10									Water - Sampled: 02/08/12 12:40
Sample ID: GE2-SW-05-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-11									Water - Sampled: 02/08/12 12:45
Sample ID: GE2-SW-805									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-12									Water - Sampled: 02/08/12 12:45
Sample ID: GE2-SW-805-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-13									Water - Sampled: 02/08/12 14:40
Sample ID: GE2-SW-06									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Christopher Weden

Project Number: R12S51

Project: Grey Eagle Mine February 2012 Sampling

Emergency Response Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 12040C

Reported: 05/03/12 08:42

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202027-14									Water - Sampled: 02/08/12 14:40
Sample ID: GE2-SW-06-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-15									Water - Sampled: 02/08/12 15:20
Sample ID: GE2-SW-07									Metals by EPA 200 Series Methods
Arsenic	RE2	0.26	C1, J	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-16									Water - Sampled: 02/08/12 15:20
Sample ID: GE2-SW-07-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-17									Water - Sampled: 02/08/12 15:00
Sample ID: GE2-SW-08									Metals by EPA 200 Series Methods
Arsenic	RE2	0.57		0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-18									Water - Sampled: 02/08/12 15:00
Sample ID: GE2-SW-08-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	0.55		0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-19									Water - Sampled: 02/08/12 15:50
Sample ID: GE2-SW-09									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507
Lab ID: 1202027-20									Water - Sampled: 02/08/12 15:50
Sample ID: GE2-SW-09-filtered									Metals by EPA 200 Series Methods
Arsenic	RE2	ND	U	0.50	ug/L	B2B0067	02/15/12	04/26/12	200.8/SOP507



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Christopher Weden

Project Number: R12S51

Project: Grey Eagle Mine February 2012 Sampling

Emergency Response Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 12040C

Reported: 05/03/12 08:42

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	--------------------------	-----------------------	-------	----------------	------------------	------	----------------	-----	--------------

Batch B2B0067 - 200 Series Digest - Metals, ICP/MS

Prepared: 02/15/12 Analyzed: 04/26/12

Metals by EPA 200 Series Methods - Quality Control

Blank (B2B0067-BLK5)

Arsenic	ND	U	0.5	ug/L						
---------	----	---	-----	------	--	--	--	--	--	--

Blank (B2B0067-BLK6)

Arsenic	ND	U	0.5	ug/L						
---------	----	---	-----	------	--	--	--	--	--	--

LCS (B2B0067-BS5)

Arsenic	38.9		0.5	ug/L	40.0		97	85-115		200
---------	------	--	-----	------	------	--	----	--------	--	-----

LCS (B2B0067-BS6)

Arsenic	39.5		0.5	ug/L	40.0		99	85-115		200
---------	------	--	-----	------	------	--	----	--------	--	-----

Matrix Spike (B2B0067-MS8)

Source: 1202027-09RE2

Arsenic	39.3		0.5	ug/L	40.0	ND	98	70-130		20
---------	------	--	-----	------	------	----	----	--------	--	----

Matrix Spike (B2B0067-MS9)

Source: 1202027-10RE2

Arsenic	39.9		0.5	ug/L	40.0	ND	100	70-130		20
---------	------	--	-----	------	------	----	-----	--------	--	----

Matrix Spike Dup (B2B0067-MSD8)

Source: 1202027-09RE2

Arsenic	40.1		0.5	ug/L	40.0	ND	100	70-130	2	20
---------	------	--	-----	------	------	----	-----	--------	---	----

Matrix Spike Dup (B2B0067-MSD9)

Source: 1202027-10RE2

Arsenic	41		0.5	ug/L	40.0	ND	103	70-130	3	20
---------	----	--	-----	------	------	----	-----	--------	---	----



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Christopher Weden

Project Number: R12S51

Project: Grey Eagle Mine February 2012 Sampling

Emergency Response Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 12040C

Reported: 05/03/12 08:42

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.